

# **Historic, Archive Document**

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Mic. 62.27

# SEED

Catalogue 1903

## MICHAEL'S SEED STORE

GARDEN, FIELD AND  
GRASS SEEDS

ALFALFA, TIMOTHY, CLOVER AND FARM  
SEEDS OUR SPECIALTY

SIoux CITY  
IOWA

316  
PEARL ST.

# SPECIAL NOTICE.

To every man, woman and child who contemplates planting seeds the coming spring, we want to say that it will pay you and pay you well to buy your seed of any kind at a **Seed Store**. There you will find fresh new stocks and a full line of everything in Seeds, and greatly too to your advantage in both price and quality. Our **Garden Seed**, we want to say, are the very best obtainable, planted, grown and saved by special growers of the different kinds of seed especially for our business. The **Field and Grass** we handle are clean and pure, free from foul and obnoxious weed seeds. We invite every farmer to come and see our stocks before sending away for their seed and feel satisfied that when you see our stock that you will do business with us.

Very kindly Yours,

J. S. MICHAEL.

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## TABLE OF WEIGHTS AND MEASURES And Quantity per Acre of Field and Grass Seed.

WEIGHTS PER BUSHEL.	POUNDS	QUANTITY PER ACRE.
Barley.....	48	Barley, broadcast..... 2 to 3 bu
Beans.....	60	Beans, Dwarf, in drills..... 1½ bu
Blue Grass.....	14	Buckwheat..... 1 bu
Bromus Inermus Grass.....	14	Cane, in drills..... 12 qts
Broom Corn.....	46	Cane, broadcast..... 1½ to 2 bu
Buckwheat.....	48	Clover, Lucerne or Alfalfa..... 20 lbs
Cane.....	50	Clover, Red, alone..... 8 to 10 lbs
Clover.....	60	Clover, White or Alsike..... 6 to 10 lbs
Corn, Shelled.....	56	Corn, in hills..... 8 to 10 qts
Corn, on ear.....	70	Flax, broadcast..... 1½ bu
Corn, Sweet or Sugar.....	48	Grass, Blue, Ky, or Eng..... 1 to 2 bu
Flax Seed.....	56	Grass, Bromus Inermus..... 1 to 2 bu
Hemp Seed.....	44	Grass, English Rye..... 1 to 2 bu
Hungarian.....	48	Grass, Lawn..... 50 to 75 lbs
Lawn Grass.....	14	Grass, Orchard..... 1 to 3 bu
Millet.....	48	Grass, Red Top, in chaff..... 2 bu
Oats.....	32	Grass, Red Top, solid seed..... 12 lbs
Orchard Grass.....	14	Grass, Timothy..... ½ to ¾ bu
Pasture Grass Mixture.....	14	Millet, broadcast..... ½ to 1 bu
Peas, smooth.....	60	Oats, broadcast..... 2 to 3 bu
Peas, wrinkled.....	56	Onions, in drills..... 4 to 6 lbs
Popcorn, New (on ear).....	70	Peas, in drills..... 1½ bu
Potatoes, heaping measure.....	60	Peas, broadcast..... 2 to 3 bu
Pumpkin, Field.....	26	Potatoes, cut tubers..... 10 bu
Red Top.....	14	Rape, Dwarf Essex..... 4 to 6 lbs
Rye.....	56	Rye, broadcast..... 1½ to 2 bu
Timothy.....	45	Turnip, broadcast..... 3 to 4 lbs
Wheat.....	60	Wheat, broadcast..... 1½ to 2 bu

316 Pearl St.,  
SIOUX CITY, IOWA.

J. S. MICHAEL

SEED MERCHANT

# Market Gardners Price List Bulk Seeds

BEANS, PEAS and SWEET CORN comes first—other SEEDS in alphabetical order.

## CASH PRICES

### BEANS

Beans are very sensitive to both cold and wet. It would be useless to plant them until the ground is warm. They can be safely planted first when the apple is in bloom. For garden culture make your rows about 18 inches apart, and plant the beans that the vines may grow four inches apart in the rows. Beans mature in about 30 to 50 days after germination. One qt. plants about 100 ft. row.

Dwarf Wax Sorts			
	PT.	QT.	PK.
Golden Wax .....	\$o 15	\$o 25	\$1 75
German Black Wax .....	15	25	1 90
Davis' White Wax .....	15	25	1 75
Wardell's Kidney Wax .....	15	25	2 25
New Refuge Wax .....	15	25	1 60
Dwarf Green Pod Sorts			
Early Red Valentine .....	10	20	1 25
Early Six Weeks .....	10	15	1 00
Stringless Green Pod .....	15	25	1 50
Burpee's Bush Lima .....	20	25	2 00
Pole Varieties			
Large White Lima .....	15	25	1 75
Lazy Wife .....	15	25	1 75

### Field Sorts

White Navy .....

\$3 00 per bu.

### PEAS

Peas are among the earliest seeds that can be planted at the close of winter. The round, smooth sorts are the hardiest and are often planted without danger before the frost is out of the ground. The wrinkled sorts are not so hardy, and cannot with safety be planted quite as early; but plant all kinds as early as possible and plant on a warm quick rich soil. Peas will mature earlier if planted only an inch deep, where earliness is most important they should not be planted deeper, but larger pods and more of them may be had by deeper planting. Dwarf varieties are planted in rows 15 inches to two feet apart. Two quarts of seed sows a hundred yards of rows.

	PT.	QT.	PK.
Michael's Early Record .....	10	15	1 00
Alaska, Earliest of all .....	10	20	1 25
Ferry's First and Best .....	15	20	1 35
McLean's Little Gem .....	15	25	1 50
American Wonder .....	15	30	1 80
Nott's Excelsior .....	15	30	1 80
Hosford's Market Garden .....	10	15	1 00
Advancer .....	10	20	1 20
Yorkshire Hero .....	10	15	1 00
Telephone, .....	10	20	1 25
Telephone (home raised) .....	10	15	90
Champion of England .....	10	15	1 00
Marrowfat .....	10	15	60
Field Peas, \$2.00 per bu. ....	--	10	60

### SWEET CORN—Extra Early Cory

Early Minnesota .....	10	20	1 25
Michael's Red Cross Early Evergreen .....	10	15	1 00
Crosby's Early .....	10	15	1 00
Stowell's Evergreen, select .....	10	20	1 00
Fodder Corn, per bu. ....	Market price.		

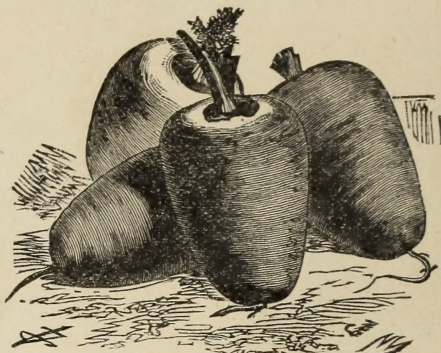


Beet.—Extra Early Forcing.  
Per oz. 10c.

## CARROTS.

Carrots require a deep, well-worked soil. For bunching, the Oxheart, Danvers and Chantenay are the best; for feeding stock grow the Belgian varieties which yield big crops. 3 oz. of seed for 100 yards.

Read about Big Four Oats, Page 15.



Carrots.—Michael's Perfect Strain of  
Oxheart. Per oz 15c.

### BEETS.

#### Table Sorts.

	$\frac{3}{4}$ OZ.	$\frac{1}{2}$ LB.	LB.
Egyptian Eztra Early Turnip Blood.....	\$0 05	\$0 20	\$0 35
Crosby's Egyptian, Very Early Deep Red.....	5	20	40
Dewing Early Turnip Blood.....	5	20	35
Edmund's Early Turnip Blood.....	5	20	35
Early Dark Red Turnip Blood.....	5	20	45
Eclipse.....	5	20	35
Long Smooth Blood Red.....	5	20	35
Half Long Blood Red.....	5	20	35

#### Sugar Sorts.

	OZ.	LB.	10LB.
Imperial French Sugar.....	\$0 05	\$0 20	\$1 50
Red Top White Sugar.....	5	20	1 50
Klein Wanzleben Sugar Beet.....	5	20	1 50

#### For Cattle.

Mmmoth Long Mangle.....	5	20	1 50
Golden Tankard.....	5	20	1 50

**BROCOLI**—Large Early White..... 35

Landreth's Purple..... 40

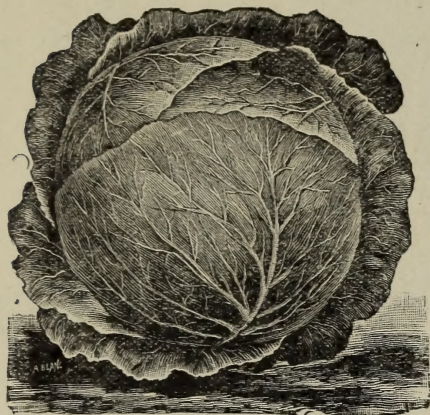
**BRUSSEL SPROUTS**—Improved Dwarf..... 10

	OZ.	$\frac{1}{4}$ LB.	LB.
<b>CARROTS</b> —Early Short Horn.....	\$0 10	\$0 20	\$0 60
Oxheart.....	10	20	55
Danvers Half Long.....	10	20	50
Chantenay Stump Rooted.....	10	20	55
Long Orange.....	10	20	50
White or Yellow Belgium for Stock.....	5	15	30

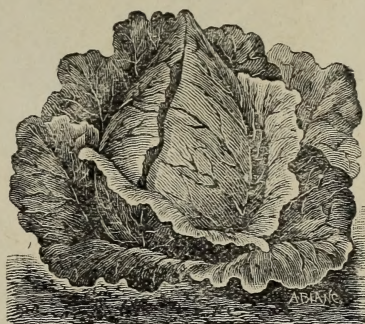
## CABBAGE.

Where any vegetable attains its highest degree of perfection, there we may expect to grow the most select and purest strains of seed. Long Island, N. Y., is a most favored spot for the growing of Cabbage. Leading seedsmen of America get their select stocks grown there. The seed we offer is grown on Long Island by a most careful grower, and we offer it with the full assurance that it is the best in the world.

For Seed Corn See Page 14.



Cabbage.—Henderson's Early Summer.  
Choicest and best. Per oz. 20c.



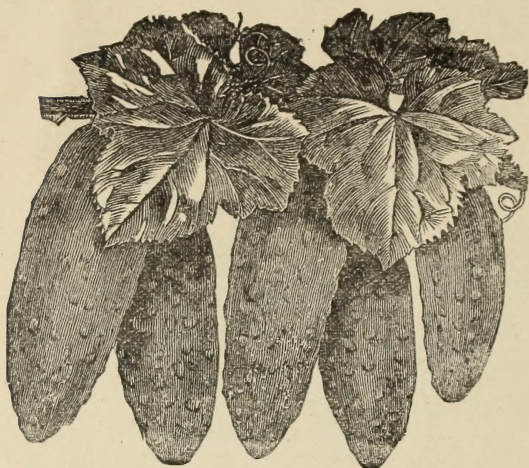
Cabbage.—Select Very Early Jersey  
Wakefield. Per oz. 25c.

### CABBAGE.

	OZ	$\frac{1}{4}$ LB.	LB.
Early Jersey Wakefield, selected.....	\$0 20	\$0 60	\$2 00
Early Winningstadt, extra fine improved.....	15	60	1 50
Reedland's Early Drumhead.....	25	1 00	3 75
Henderson' Early Summer select.....	20	60	1 75
Early Flat Dutch, very select.....	15	50	1 50
Succession, very select.....	20	75	2 00
Fottler's Brunswick.....	15	50	1 50
Hollander or Danish Ball Head.....	20	65	2 00
<b>Large Flat Dutch</b> , premium select.....	15	40	1 35
Sure Head.....	15	50	1 50
Marblehead Mammoth.....	15	50	1 50
Large Late Drumhead.....	15	40	1 30
Mammoth Red Rock.....	25	75	2 00

**CAULIFLOWER.**—Early Snowball..... 2 25  
Large Erfurt, choicest of all late varieties .. 2 00

**CELERY**—Giant Pascal, Pacific coast grown... 15 50 1 50  
White Plume, Pacific coast grown..... 15 50 1 50  
Golden Self Blanching, Pacific coast grown... 35 1 00 3 00  
Celeriac Root Celery..... 15 50 1 50



Cucumber.—Boston Pickling, 20c oz.

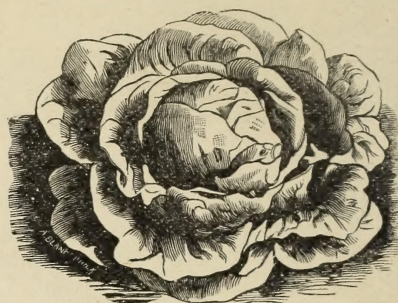
## CUCUMBERS

Seed Crop Very  
Short this year.

	oz.
Early Frame Short	
Green.....	20c
Boston Pickling....	20c
Chicago Pickling....	20c
White Spine .....	20c
Long Green .....	20c
Arlington .....	20c
White Albino.....	20c



Lettuce.—Black Seeded Simpson. The best for forcing of early sowing out doors. One oz will sow 50 sq. ft. Per oz, 10c.



Lettuce.—White Stone Head. New sort of best quality, 10c oz.

	oz.	$\frac{1}{4}$ LB.	$\frac{1}{2}$ LB.
LETTUCE—Ferry's Early Prize Head.....	\$0 10	\$0 25	\$0 40
Early Curled Simpson's White Seeded ..	10	25	40
Early Curled Simpson's White Seeded ..	10	25	40
Hanson .....	10	25	40
Early Curled Selicia.....	10	25	40
White Stone Head.....	10	25	40
CRESS—Garden Varieties.....	5c to 10		
ENDIVE—Moss Curled.....	10c to 15		
KALE or BORECOLE—Green Curled.....	10		
EGG PLANT—Thornless large round purple..	25		
New York Improved.....	25		
KOHL RABI—Early White Vienna or Purple..	15		
LEEK—London Flag.....	10		

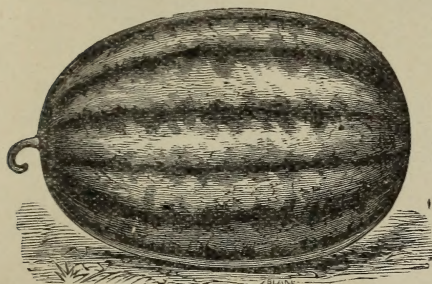
For  
Grass  
Seed  
See  
Page 11

## MELONS.

The essential thing in melon culture is to get good strong vines early in the season. To this end plant your melons in hills, eight feet apart, made rich with some good fertilizer or well rotted manure, thoroughly mixed with the soil.



Musk Melon.—Extra Early Cantaloupe.



Water Melon.—Dixie.

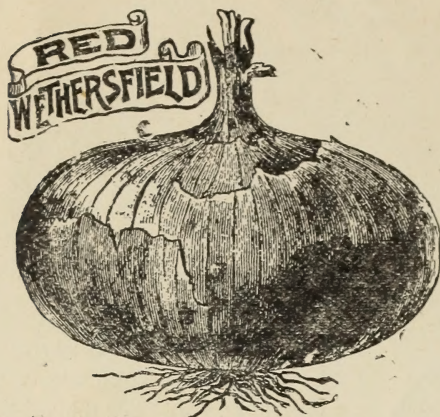
As soon as the ground is warm and dry plant fifteen to twenty seeds in each hill and thin out when the plants begin to grow, leaving only three to five of the most vigorous. Protect the young plants from insects and hasten their growth by the use of liquid manure. From three to five pounds plant an acre.

### MUSK MELON.

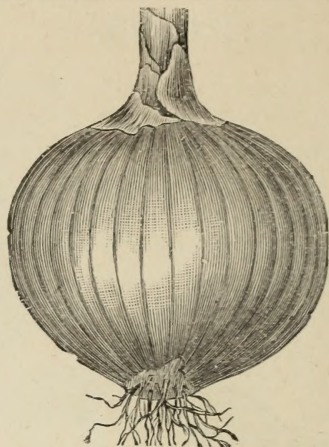
	$\frac{3}{4}$ oz.	$\frac{1}{2}$ oz.	LB.
Extra Early Green Citron, Cantaloupe.....	\$o 10	\$o 40	\$o 65
Extra Early Hackensack.....	10	60	1 00
Large Hackensack.....	10	50	90
Salmon & Green.....	10	40	50
Emerald Gem.....	10	80	1 50
Osage.....	5	30	50
Rocky Ford.....	5	25	50
Paul Rose, New.....	5	30	60
Princess.....	5	25	50

### WATER MELONS—Cole's Early (best early).....

Vick's Early.....	5	25	50
Ferry's Peerless.....	5	30	50
Phinney's Early.....	5	25	40
New Triumph.....	5	25	50
Landreth's Boss.....	5	25	45
Georgia Rattlesnake.....	10	50	90
Monte Cristo.....	5	25	45
McVicar's Sugar.....	10	50	85
Cuban Queen.....	5	30	50
Kolb's Gem.....	5	25	45
Dixie.....	5	20	35
Duke Jones.....	5	25	35
Sweet Heart.....	5	25	35
Black Diamond.....	5	25	45
	5	30	50



**Large Red Wethersfield.**—The best known of all the Onions. Good sellers, great keepers, the best of all standard sorts. My stock of this Onion seed is most select and sure to grow. Oz. 10c; lb. 90c.



**Southport Red Globe.**—These Onions bring a premium in any market. Per oz. 10c;  $\frac{1}{2}$  lb. 75c; 1 lb. \$1.25.

ONIONS—Extra Early Red Flat	OZ	$\frac{1}{2}$ LB	LB.
	\$o 10	\$o 51	\$o 20
<b>Large Red Wethersfield</b> (5lbs. \$4.25; 10 lbs. \$8.00)	10	50	90
Southport Large Red Globe (10 lbs. \$10.00)	00	75	1 25
White Globe	15	1 00	1 50
Yellow Globe Danvers	10	50	90
Prize Takers	10	75	1 25
White Silver Skin	15	1 00	1 75
Mammoth Silver King	15	85	1 50
New Queen (for pickling)	15	1 00	1 75
Barletta Extra Early White	15	1 00	1 75
<b>Australian Brown</b>	10	40	75

Special prices in large lots on all kinds.

**ONION SETS**—10c to 15c per qt. Special prices in quantities.

	OZ.	$\frac{1}{2}$ LB.	LB.
	\$o 10	\$o 35	\$o 60
<b>PARSLEY</b> —Champion Moss Curled	5	20	30
<b>PARSNIPS</b> —Hollow Crown	5	30	50
Bloomsdale	5	30	50
<b>PEPPER</b> —Large Bell Bullnose	20		
Ruby King	20		
Golden Dawn	20		
<b>PUMPKIN</b> —Common Field	5	20	35
Sweet Sugar	5	30	50
<b>SQUASH</b> —Early White Bush (patty pan)	5	25	50
Golden Summer Crookneck	5	25	50
Hubbard, extra warty	10	60	1 00
Boston Marrow	5	25	40

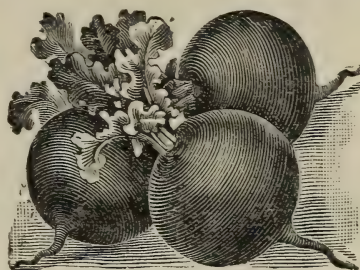
	OZ.	½ LB.	LB.
<b>RADISHES—Early Scarlet Turnip</b> .....	\$0 05	\$0 25	\$0 40
Scarlet Turnip White Tip.....	5	25	45
French Breakfast.....	5	25	50
<b>Early Scarlet Globe</b> .....	5	30	50
Ne Plus Ultra.....	5	30	50
Long Scarlet Short Top.....	5	25	40
Brightest Long Scarlet.....	5	25	45
Chartier.....	5	35	65
White Vienna or Lady Finger.....	5	30	45
White Strasburg.....	5	25	50
Early White Turnip.....	5	25	50
Calf. Mammoth White Winter.....	5	25	60
Rose China Winter.....	5	35	60
Black Spanish, round or long.....	5	30	50
Special prices five to ten lb. lots.			



Radish—Early Scarlet Globe.

French  
grown  
Radish Seed  
are the  
purest  
and finest  
known

One ounce  
drilled will  
sow 50 ft.  
row.



Radish—Early Scarlet Turnip.

	OZ.	½ LB.	LB.
<b>SALSIFY</b> —Mammoth Sandwich Island.....	\$0 10	\$0 60	\$1 00
<b>SPINACH</b> —Bloomsdale, (10 lbs. lots \$1.50).....	5	15	25
Long Standing (10 lbs. lots \$1.50).....	5	15	25
Grant Thick Leaf.....	5	15	25
Landreth's Bloomsdale—5 lbs. sealed bags \$1.50.			
		½ OZ.	OZ.
<b>TOMATO</b> —Atlantic Prize or Early Advance.....	\$0 10	\$0 15	
Matchless Very Early.....		10	15
New Stone.....		10	15
Dwarf Champion.....		15	25
Acme.....		10	15
Trophy.....		10	15
Yellow Pear Shaped.....		10	20
	OZ.	¼ LB.	LB.
<b>TURNIP</b> —Extra Early White Milan.....	\$0 10	\$0 20	\$0 65
Extra Early Purple Top Milan.....	5	20	60
Early White Flat Dutch.....	5	15	35
Purple Top Strap Leaf.....	5	15	35
Purple Top White Globe.....	5	15	35
Yellow Aberdeen.....	5	15	40
<b>RUTABAGA</b> —Bloomsdale Swede.....	10	20	60
Purple Top, Long Island (Yellow flesh).....	5	15	35



## FLOWER SEED IN BULK.

	1/8 oz.
Alyssum, Sweet Scented .....	\$0 05
"    Little Gem .....	10
Asters, mixed sorts, many colors .....	1-16 oz., 10c 20
Balsam, all colors, mixed sorts .....	10
Candy Tuft .....	10
Canna, mixed sorts .....	10
Carnations, Marguerites, finest mix .....	15
Chrysanthemum, Double, mixed sorts .....	10
Cosmos, New Dwarf (early flowering) .....	10
Cosmos, Giant Flowered, choice mixed .....	10
Cypress Vine, mixed colors .....	10
Dahlia, single, mixed, 5c 1/8 oz.; and double mixed .....	15
Four O'clock, mixed .....	10
Marigold, double .....	10
Mignonette .....	10
Morning Glory .....	10
Moonflower, new beautiful pink .....	10
Moss Rose (portulaca)..... single, 1-16 oz., 10c; double, 1-16 oz., 15c.	
Nasturtium, .... Tail or Dwarf, 10c per oz.; New Chameleon, per oz., 25c.	
Pansies, very finest mixture, all colors, .....	1-16 oz., 10c.
Pansies, New Double Pansy Masterpiece, .....	1-16 oz., 50c.
Pansies, Giant Bugnot and Giant Trimardeau, in grand mixture, 1-16 oz., 15c.	
Petunia, fine mixed, .....	single, 1-16 oz., 10c; double, 1-16 oz., 25c.
Phlox, fine mixed .....	20
Phlox, Star of Quedlinburg (Star Phlox) mixed .....	15
Pink, double mixed, 1/8 oz., 10c; Double Red Midnight .....	10
Poppy, double carnation flowered .....	10
Poppy, Maid of the Mist (Giant bloomer) .....	10
Stocks, good mixed .....	1-16 oz., 20c.
Sweet Peas, fine mixture .....	oz., 5c; 1/4 lb., 15c; 1 lb., 35c.
Sweet Peas, Eakford's Hybrid, mixture .....	oz., 10c; 2 oz., 15c.
Sweet Peas, named varieties .....	oz., 10c; 2 oz., 15c.
Sweet Williams, single, 1/8 oz., 10c; double, mammoth flower .....	15
Verbena, fine mammoth mixed, 1/8 oz., 15c; Moss Verbena, very early .....	15
Wild Cucumber (climber) .....	10
Wild Flower Garden Mixture .....	10
Zennia, double mixed large flowering .....	10

## BULBS FOR SPRING PLANTING



LATANIA BORBONICA.

## Borbonica Palm

This is the hardiest of the Palm family and lives, thrives and grows under the most adverse conditions.

15 to 18 inches, 90 cents.



## Elephant's Ear

(Calladium Esculeutum)

Grand tropic-looking plant, a favorite for specimens on the lawn. In rich soil, if freely watered they produce enormous leaves, frequently four feet long by three feet wide; height 4 to 5 feet. Fair sized bulbs 10c each; monster bulbs 25c each.

## Flowering Bulbs

We offer only selected stock of the best bulbs.

	EACH	DOZ.
Canna .....	\$o 10	\$1 00
Cinnamon Vine .....	5	50
Bleeding Heart .....	15	
Dahlias .....	15	1 75
Lilies—Aurutam, Rubrum and Album .....	10c to 15	\$1.00 to 2 50
Lilies—Calla Bulbs .....	10c to 25	
Gladiolus .....	2c to 5	20 to 50
Maderia Vine Roots .....	10	75
Peonies—Mixed or named .....	15	
Phlox, hardy .....	15	
Pink, hardy, mixed color .....	10	
Tuberoses, White Pearl .....	3	25

## Potted Bedding Plants

Calladium—Giant Flowering .....	25	
Carnations .....	25	
Dusty Miller .....	15	
Geranium, grown in 2½ inch pots .....	10	
Geranium large, grown in 4 inch pots .....	35	
Petunias .....	10	
Pansy Plants, Giant Bugnot varieties, potted .....	5	10
Pansy Plants, large, all colors; per box of 12, 25 cts. ....	60	
Palms, 4 inch pot, 12 to 15 inches high .....	90	
Palms, 5 inch pot, 15 to 18 inches high .....	25	
Rubber Tree, 14 inches high .....	50	
Ferns, potted .....	15	
Verbena .....		

**Bromus Inermis.**

(Awnless Brome Grass.)

A hardy perennial, standing extremes of heat, cold and drought better than any other of our cultivated grasses. Is especially adapted to the Northwest. It grows with great rapidity and produces heavy hay crops and luxuriant pastures. All kinds of stock eat it greedily, and the analyses made show that it is exceedingly rich in flesh-forming ingredients. Sow about 20 pounds to the acre. Price, 15c per lb.; \$10 per 100 lbs., subject to market change. Will make you a very close price on big lots.

**BROMUS INERMIS GRASS.****KENTUCKY BLUE GRASS.****Kentucky Blue Grass.**

The universal pasture grass of America and the finest lawn grass in the world, is our own Kentucky Blue Grass. It starts like magic with the first smile of spring, and is a velvet of green until winter comes again. It can be sown on the wild prairie and will catch, but the best results are to be had by getting the seed well covered. The seed we offer comes directly from Kentucky in car lots, and is fresh, clean and pure. Price, 15c per pound. Close price in quantity; \$1.50 per bu. in 8-bu. lot for the very best.

**Grass, Field and Farm Seeds.**

We quote only today's values on Clover and Grass Seed. Ask for sample and special price on quantity. Come and see us. Prices here quoted run according to grade and quality. Bags, EXTRA, 15c each. Special discount on big lots.

**Remember that these Prices are subject to Market Changes.**

<b>Clover</b> —Medium Red .....	15c lb.,	Market Price per bu. of 60 lbs.	
Mammoth Red .....	15c lb.,	" " "	60 "
White .....	25c lb.,	" " "	60 "
Alsike .....	20c lb.,	" " "	60 "
<b>Alfalfa</b> —Northern grown seed, .....	15c lb.,	\$7.50 to \$8.55 per bu. of 60 lbs.	
<b>Alfalfa</b> —Turkestan Imported, seed hardest .....			25c per lb.
<b>Timothy Seed</b> .....	\$2 50 to \$3 00	per bu. of 45 lbs.	
<b>Red Top</b> —Cleaned, fancy solid seed .....	15c per lb.,	\$9 00 to \$10 00	per 100 lbs.
<b>Red Top</b> —Clean, unhulled seed .....		\$7 00	per 100 lbs.
<b>Ky. Blue Grass</b> —Export extra fancy cleaned .....	\$1 60	per bu. of 14 lbs.	
Ky. Blue Grass, fancy cleaned, in 8 bu. bag .....	1 50	" "	14 "
English Blue Grass .....	1 00	" "	14 "
Canadian Blue Grass .....	1 15	" "	14 "
<b>Rye Grass</b> —Italian .....	1 00	" "	14 "
English .....	1 00	" "	14 "
<b>Orchard Grass</b> .....	2 00	" "	14 "
<b>Lawn Grass</b> —Evergreen Central Park Mixture .....	15	per lb.,	
Ky. Blue, special for lawns .....	15	" "	2 lbs. 25c.
<b>Bromus</b> —Inermis .....	\$0 15	per lb.; \$10 00	per 100 lbs.
<b>Millet</b> —German .....	75 to \$1 00	per bu. of	48 lbs.
Common .....	75 to 1 00	" "	48 "

Fancy German Tenn. grown seed, see page 12.

Buy your Millet early; later on prices will range higher.

These prices are subject to market changes.



**Orchard Grass**

## English Blue Grass

### Meadow Fescue

In just a few years this grass has come to the front like magic. This is due to the fact that it is a success everywhere, on all kinds of land and never freezes out. It comes early in the spring, is green all summer and lasts until late autumn. It's a nutritious pasture and a valuable hay crop too. It's a perennial 2 to 3 ft. high, and heads out in June.

You can't sow it in the air and get it to



**English Blue Grass**

grow in the ground, but if the land is at all cultivated and the seed well covered it is sure to grow. We unhesitatingly recommend it to every farmer. Price best seed per bushel, \$1.00. One bushel per acre.

**ORCHARD GRASS**—This grass does well everywhere, makes a splendid permanent pasture, and for hay can be cut much earlier than timothy. Succeeds the best of all grasses in timbered lands or orchards. Sow one to two bushels per acre. Price best seed \$2.00 per bu., subject market changes.

**TIMOTHY**—This well known grass is the best of all grasses for hay. Succeeds very well on all kinds of soil, but is well adapted to moderately moist land. Should be cut just when the blossom begins to fall. Can be sown in spring or fall. One bushel sows 3 acres. It is used in mixtures with clover and other grasses to good advantage. Price per bushel \$2.50, but seed subject to market change. Bag, 15c each.

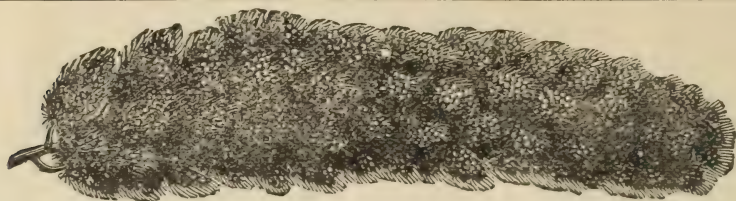


**Timothy**

**RED TOP**—This grass is especially suited to low wet spouty lands; is in fact the only grass which is a real success on such soil. It stands our northern winters, can be sown on wet land without cultivation, and will catch. Into the wet soils it spreads its network of roots, tames the land and in a few years makes a deep, substantial sod. The seed often comes in the chaff, but the only thing to plant is the solid seed clean from chaff. We quote solid seed, very best, 15c per lb; 2 lbs 25c; per 100 lbs \$9.00 to \$10.00; prices subject to market changes.



**Red Top**



### PURE GERMAN MILLET.

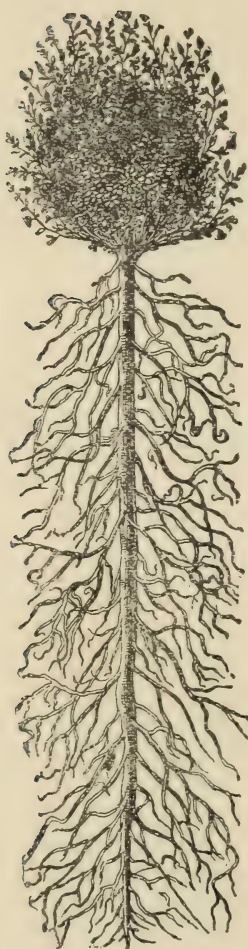
Of all the different kinds of grasses and forage plants raised for either hay or pasture, Millet is the most widely known and extensively used. If drouths wither or rains and floods drown out and destroy the early planted fields of grain, Millet is the farmer's next resort. The Pure German Millet, of all the well known kinds is by far the most valuable. This well known sort reaches the acme of perfection in the more southern states and it is a fact that when the southern grown seed is planted in the north it produces a taller stalk and heavier growth of foliage than can possibly be raised from our own northern grown seed. It is the judgment of those who have tried the seed from both sections side by side that the planter had better pay \$2.00 per bushel for pure southern grown German Millet than to have the other as a gift. See enclosed circular on Millet. Plant  $\frac{3}{4}$  bushel per acre.

Pure Southern Grown German Millet, bu. \$1.00  
Tennessee " " bu. 1.50

Subject to market change. Bags, 15c each.

### ALFALFA CLOVER.

This grand Clover forage plant is now a success everywhere. Every farmer has either heard of or knows its worth and merit. The plant grows, thrives and does well on any of our rolling prairies or well drained bottom lands. The vigorous roots searching for moisture sink deep into the ground, bringing to the surface the fertilizing materials stored in the earth for ages. It is a fertilizer, leaving the land richer and better for succeeding crops than when it was first sown. Three crops are often cut in one season, and from ten to twelve tons of excellent hay is the annual reward. As a pasture it unfolds like magic with the first smile of spring, a velvet of green the entire summer through, lasting late into fall and early winter. The young plants are tender; the seed should not be sown until the frost has left and the ground is warm. One bushel of 60 lbs will sow three acres. It should not be cropped or pastured the first year. Can be planted with a light nurse crop, but should never be sown with any crop of grain. Buy seed early; it will doubtless be higher. Price per bushel 60 lbs \$7.50 to \$8.50, according to quality, subject to change. Bags; 15c.



Alfalfa Clover

### Dwarf Essex Rape.

Rape, as a pasture for cattle, hogs and sheep, is unequalled by any other plant. It can be planted with the spring crop, and is ready for pasture when the crop is gathered. Sow four to six pounds to

the acre. Price of fifteen lbs., \$1.00; special price on 100-lb. lots.



DWARF ESSEX RAPE.

### Sorghum.

Sugarcane for fodder.

The greatest forage and fodder plant in the world today. It will yield two crops of fodder and a good fall pasture in one season. It roots deep into the subsoil that stands the drouths that often



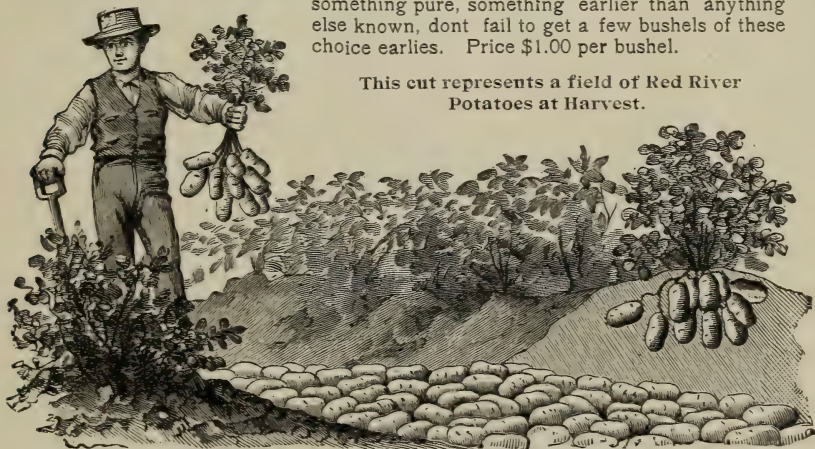
SORGHUM.—Sugar Cane.

destroy other crops. One farmer says his horses, cattle and hogs all eat it. As a rough provender it is unsurpassed. Crop of seed scarce this year. Market price.

### Red River, Ohio, Potatoes.

The stock of Ohio Potatoes we offer were grown in the Red River valley. They are from ten days to two weeks earlier than the home grown. They are pure and free from scab, and were raised especially for seed stock. If you want something pure, something earlier than anything else known, don't fail to get a few bushels of these choice earlies. Price \$1.00 per bushel.

This cut represents a field of Red River Potatoes at Harvest.

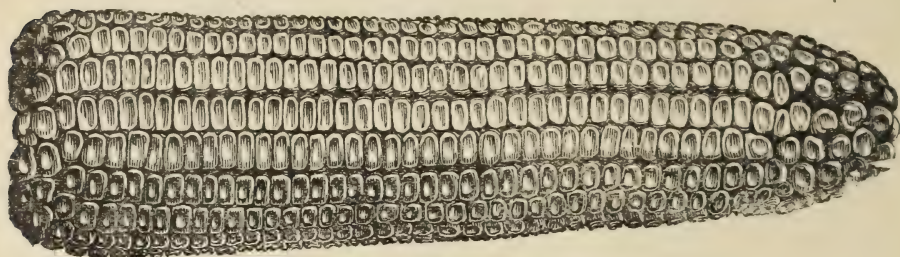


Prices Subject to being Sold Short and Market Changes.

	PER BU.
Red River Early Ohio.....	\$1 00
Red River Early Acme.....	1 25
Rural New Yorker.....(Special Low Prices on Quantity.)	1 00
SEED SWEET POTATOES.....	\$2 50 to \$3 00 per bbl.

**TIPPED.****SELECTED. . .****SEED CORN.****TESTED.****HAND SHELLED.**

We exercise great care in growing, selecting and handling our Corn for Seed and are determined on handling only such as will grow and produce the best results. Every farmer knows the value of good Seed Corn and would rather pay the price to get good, vital, well selected Seed Corn than to have cheap stuff for nothing. We give no guarantee of crop or guarantee of any kind but we do give the real article, and if any one wishes to test our Seed Corn before planting and is not satisfied with results they can return the seed and get their money back.

**Pride of the North.**

The earliest of all yellow dent varieties. Has a deep bright yellow kernel tightly knit on a very small red cob. A good yielder and out shells all other varieties. Can be depended upon to a certainty in this section. Ripens in 90 days. Price, \$1.50 per bushel. Bags extra, 15c each.

Michael's Mortgage Lifter, earliest big corn, long ear, sure crop

wet or dry; a regular lifter	\$1 25 per bu.
Leaming's Early Golden Dent	1 25 "
Armstrong's Rose Yellow Dent	1 25 "
Gold Mine Yellow Dent	1 25 "
Early White Dent	1 25 "
Early Flint Corn (early fodder)	1 25 "

**SPELTZ.**

An attractive new kind of grain brought to this country by the Russians. The United States department of Agriculture recommends it as a grain for the semi-arid sections. It has great drouth resisting features. It yields as much as oats and is a better feed. Sow two bushels to the acre. Price, per bu., \$0 75; 10 bu., \$6 00.

**BEARDLESS BARLEY.**

A Barley that is without beards, just as smooth as a head of smooth wheat—looks the same when threshed as the ordinary white Barley. Price 90c per bu.; 5 bu., \$4 00; 10 bu., \$7 50.

**SALZER'S SILVER KING BARLEY.**

A six-rowed bearded variety that yields an enormous crop. John Brilder, of Manatowac county, Wis., claims to have raised 173 bu. to the acre. Price, \$1 00 per bu. Stock limited.

**SPRING RYE.**

This Rye is a success. The straw is shorter and stiffer than the Winter sorts, and it is a better yielder. Plant as soon in spring as you can get it in the ground. Price, \$1 00 per bu. Winter Rye, \$0 75 per bu.



# SEED OATS

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## BIG 4

The best oats grown  
in Iowa last year was  
**BIG 4.**

Several years experience  
convinces us it's the best oats  
you can plant this season. It  
is the earliest of all. Straw  
stiff, rust proof; bears the  
biggest plump white kernel of  
all oats; a wonderful yielder.  
Just as well have double if  
you plant it instead of com-  
mon oats.

Farmers, you will miss it if  
you don't plant **Big 4.** My  
stock is pure.

Price per bu. \$1.00; special  
price in quantities.

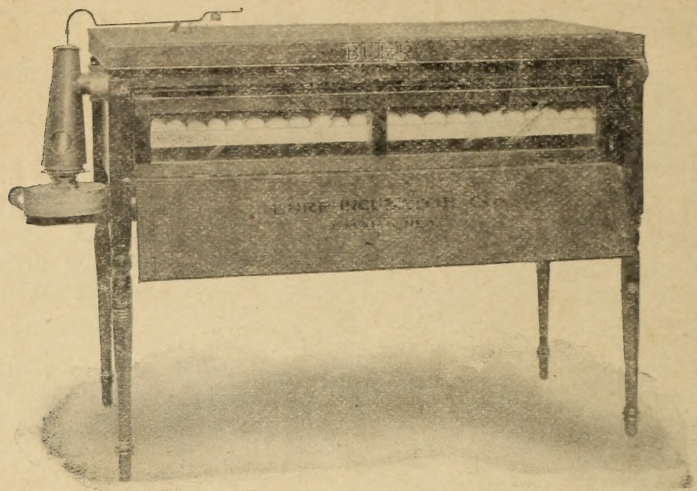
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## ISLE OF ERIN

A new variety of oats from  
Ireland. Last year they did  
well in this country. Grows  
a tall, strong straw that stands  
the storm; bears a well filled  
head, kernel plump and pure  
white. It's a new kind, but  
worthy of trial. Stock lim-  
ited.

Price per bushel \$1.00.

# Incubators and Poultry Supplies



## The Burr Hot Water Incubator

The Burr Hot Water Incubator is the only one with an absolute guarantee that you get your money back after 30 days trial if you are not satisfied with it. Made of the best California redwood, copper tank, double wafer regulator, patent egg tray. Try one; get your money back if you say so.

60 Egg Incubator .....	\$10 00	No. 2 Brooder, large size .....	\$10 00
120 Egg Incubator .....	18 00	No. 1 Standard Bone Cutter .....	12 00
240 Egg Incubator .....	22 00	No. 2 Standard Bone Cutter .....	8 50
No. 1 Brooder, smaller size .....	8 00		



## Shells, Poultry Supplies and Feed

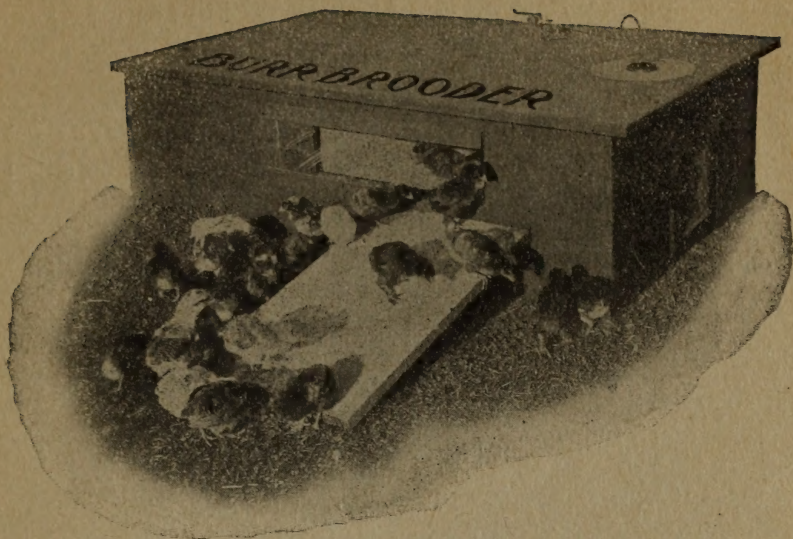
**Crushed Oyster Shells**—The Peerless Crushed Oyster Shells are kiln dried, sifted of dust and dirt after being ground and should not be confounded with the trash often offered by cheap advertising houses, and which is  $\frac{1}{2}$  dust, lime and dirt. The Peerless shells are the greatest egg producing and health preserving brand of shells manufactured.



Peerless Oyster Shells .....	1 $\frac{1}{2}$ c lb	per 100 lbs	\$1 00
Mica Crystal Grit .....	1 $\frac{1}{2}$ c lb	per 100 lbs	1 15
Crushed Bone .....	6 lbs for 25c	per 100 lbs	3 00
Ground Meat .....	6 lbs for 25c	per 100 lbs	3 00
Egg Food .....		25c per package	
Chicken Feed (mixed) .....		65c to 75c per 100 lbs	

## BIRD SEED

Hemp, Rape or Canary Seed (5 lbs 25c) .....	per lb	\$0 05
Mixed Bird Seed .....	"	05
Canary Sea Shells .....	"	05



### Burr Brooder in Actual Use

This Brooder is pronounced by poultry growers the most practical and best constructed Brooder that has ever been offered to public. Made in two sizes, price \$8.00 and \$10.00 delivered.

## Blizzard High Pressure Sprayer

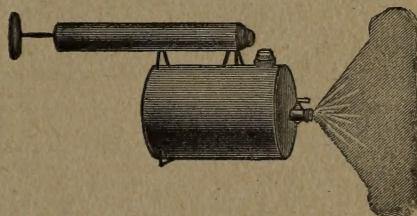


We want to put to our customers the very best hand sprayer made. We have carefully examined half a dozen of the different patents, and we unhesitatingly say to our friends that this hand sprayer is the best spray we ever saw. It is the easiest to work, and gives a continuous spray. Price 75 cents each.

### A perfect little Blizzard

For small orchards and fruit patches there is nothing like it.

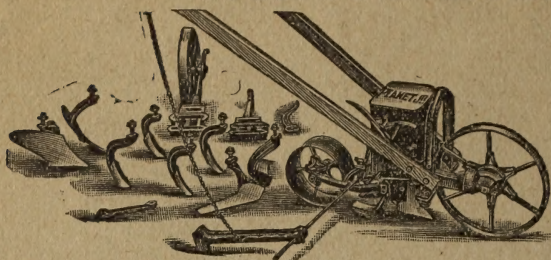
For an order of \$25 worth of **Trees and Nursery Stock** you may have this free. Ask for Nursery Catalogue.



The handiest and easiest working sprayer made for fruit trees, tobacco, potatoes, poultry houses, whitewash, etc. Holds one gallon of mixture, and after pumping in a few strokes of air works continuously. Will throw a broad, coarse Bordeaux spray ten to twelve feet high, and a straight stream much higher. Is equipped with our Utica stop cock and nozzle. Price, galvanized iron \$2 each.

# HEADQUARTERS

For Full and Complete Line of Planet Jr., Garden  
TOOLS AND REPAIRS.



No. 25.—Combined  
Hill and Drill Seeder  
and Double Wheel  
Hoe, Cultivator and  
Plow.

PRICE.....\$13.50

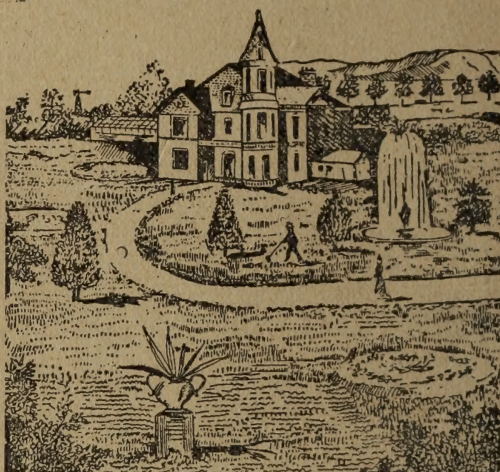
As a Drill Only, Single  
Wheel .....\$8.50

## Evergreen Lawn Grass.

Central Park Mixture.

Price 15c per Pound.

Lawn Grass requires  
a deep, well prepared  
soil. Our Fancy Central  
Park Mixture comes  
quick, is made up of the  
finest grasses and is so  
blended as to give a con-  
tinuous green, velvety  
turf the entire season  
through. Should be  
sown at rate of 3 bush-  
els per acre.



The "Indiana" Broadcast Seed Sower.  
price, each .....\$1 00  
Columbia Seeder..... 1 50

**LANG'S  
HAND  
WEEDER**

HANDIEST  
TOOL



ON EARTH.

30¢  
By Mail  
PREPAID

## MICHAEL'S SEED STORE

J. S. MICHAEL, Prop.  
Telephone 218 L-4.

316 Pearl Street,  
SIOUX CITY, IOWA.